VirtualClass™

Version 5.0

Windows 2000/XP

User's Manual

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Chapter 1

Introduction

Chapter 1 Introduction to VirtualClass

1-1 What is VirtualClass?

VirtualClass 5.0 is a real-time, interactive multimedia broadcast system that emulates a classroom situation over a network. It incorporates a revolutionary design combining hardware and software to establish a more efficient and stable framework for education.

VirtualClass offers teachers a highly effective and versatile tool that enables them to fully achieve the potential of multimedia teaching and learning. An external keypad makes class management much easier and enhances the operation of VirtualClass by providing direct access to its primary functions.

VirtualClass handles all of the teaching needs in a classroom: a teacher can monitor, broadcast, control, or shut down specific student workstations or for an entire computer lab simply by clicking the buttons on the VirtualClass keypad.

1-2 Glossary

Student Number
The student number is assigned based on the order that the student is logged in. For example, if four students have already logged in to VirtualClass, the next student to log in will be assigned Student Number 5. The Student Number is set only after logging into the class for the first time. If VirtualClass is reinstalled, the student number will be redefined according to the new login sequence.

Student Name
The name of the student's computer.

Teacher Name
The name of the teacher's computer.

Classroom ID
When VirtualClass Teacher is launched for the first time, there will be a pop-up window for you to select which classroom you would like to enter. The number you select will be the classroom number.

Student List
A file used for saving the information of all students who previously logged in to a specific classroom. The default path for saving the file is: %WindowsDire (Windows system location, e.g. C:) % \Program Files\FarStone\VirtualClass\vclass.vcm. If you back up this file during the VirtualClass uninstallation process, the student list will be restored when the program is reinstalled.

Classroom Layout
The seat sequence of the students in the classroom. VirtualClass automatically saves the classroom layout when the teacher changes the student seat. The correspondence between student name and seat position will not be changed the next time when they loglog in. It canwill only be refreshed upon the reinstallation of the program.

1-3 Main Features

1-3.1 teaching function

- **Monitor**
  Enables the teacher to view the current screen of a specific student's computer. The teacher can monitor a single student's computer or the computers of all students in succession.

- **Broadcast**

Enables the teacher to broadcast what is displayed on his/her screen, or what is displayed on a model student's screen, to all students logged in to the class.

- **Control**
  Enables the teacher to take full control of a specific student's computer. You can remotely run the keyboard, mouse and applications on a student's computer.

- **Application Control**
  Enables the teacher to manage the student's right to run certain applications. The teacher can configure an application control list and then enable the approved list or the restricted list.

- **Internet Control**
  Enables the teacher to manage the student's right to visit certain webpage. Teachers can restrict student from visiting specified websites, allow them to visit approved websites only, or completely disable the Internet access on student computers.

- **NetMovie**
  NetMovie provides a convenient way of managing and running multimedia files on CD, hard disk or a local network from within VirtualClass.

- **Distribute File**
  Enables the teacher to distribute files, pictures or applications needed in teaching to a specified student or all students in the class.

- **Collect File**
  Enables the teacher to collect students' work into his/her own computer for checking.

- **Chatroom**
  Chatroom provides an environment for the teacher and students to discuss and interact. The teacher can invite a certain student in to or drop him out of the chatroom.

- **Send Message**
  The teacher can send a message to a specified student or to all students simultaneously. He/She can enable or disable the students' ability to send a message back.

- **Raise Hand**
  Students can "raise their hand" to call the teacher's attention when he/she wants to ask a question. The teacher can enable or disable this function on the student's computer.

- **e-Tablet**
  Enables the teacher to highlight important areas of the screen to be broadcast.

- **Lock**
  Enables the teacher to lock a single student's computer or the computers of all students.

- **Power On/Off Student Computer**
  Enables the teacher to power on/off student's computer.

- **Voice Broadcast**
  Enables the teacher to broadcast a voice message from either student or teacher to the class. This function can be enabled or disabled in the VirtualClass configuration.

- **Esc**
  Enables the teacher to cancel the current process. For example, if the user is currently broadcasting, pressing **Esc** will stop the broadcasting.

1-3.2 Classroom Management

- **Select a classroom**
  Enables the teacher to select another classroom when the application is running. And the teacher can allow a specific student or all students to select a classroom.

- **Save Classroom Layout**
  This function enables the teacher to configure each student's position in accordance with the actual seat in the classroom. It automatically saves the classroom layout when you drag a student to another position.

- **Set functions of student's computer**
  Enables the teacher to set the functional ability of a student's computer. For example, he/she can enable or disable students' ability to raise their hand or exit the classroom.

- **Live Update**
  When a new version of VirtualClass is released, the teacher can update the application with the configured upgrading package sent by FarStone. Then the application on the student's computer would be upgraded automatically the next time he/she logs in.

- **Student logon**
  The student can log on in two ways: auto logon or manually logon by selecting a classroom.

- **Set Teacher Computer's IP address**
  When the teacher computer has more than one IP address, he/she can select one as the bundled IP address.

Chapter 2

Installation

Chapter 2 Installation

2-1 System Requirements

Teacher Computer
- VirtualClass keypad (optional)
- Microsoft Windows 2000/XP
- 450 MHz Pentium III processor (or compatible) or better
- 30 MB of free hard disk drive
- 24X CD-ROM
- 256 MB of RAM
- Microsoft Internet Explorer 4.0 or higher
- 10/100Mbps Network Adaptor
- TCP/IP Internet Protocol
- (Optional) Multimedia System: sound adapter, microphone and earphone

Student Computer
- Microsoft Windows 2000/XPr
- 433 MHz Celeron processor (or compatible) or better
- 20 MB of free hard disk space
- 64 MB of RAM
- 24X CD-ROM
- 10/100Mbps Network Adaptor
- TCP/IP Internet Protocol
- Microsoft Internet Explorer 5.5 or higher
- (Optional) Multimedia system: sound adapter, microphone and earphone.

Notice: When operating on a Windows NT4 system, it is suggested to install VirtualClass under Service Pack 6.

2-2 Installing VirtualClass

2-2.1 Installing VirtualClass

Step 1 Insert the VirtualClass CD into your CD drive. The Setup program should start automatically. If it does not, run the SETUP.EXE file directly from the CD. Also, if you are installing from a network or hard disk, double-click 'setup.exe' to launch the Windows Installer program.

Step 2 Carefully read the **License Agreement** and select '**I agree**' if you accept the License conditions. If you do not accept the terms in this agreement, the setup will be aborted.

Step 3 Select **Teacher** or **Student** from the Installation Options screen and click **Next**, as Fig. 2-2b shows.

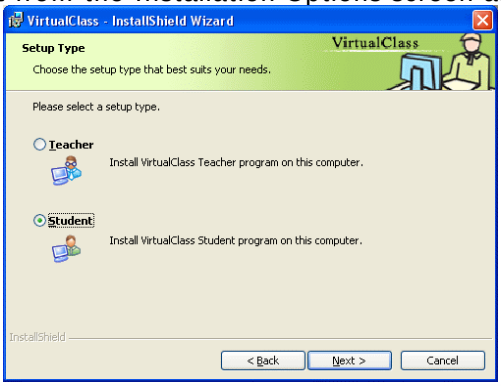


Fig. 2-2b

Step 4 Enter your required information, as Fig. 2-2a shows.

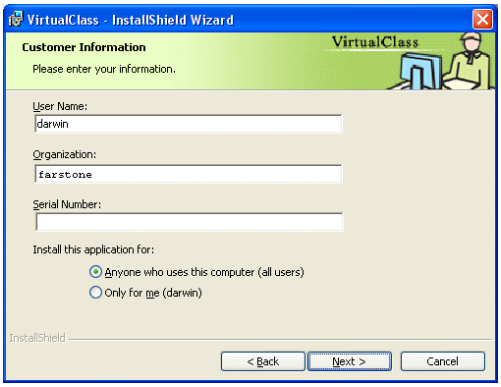


Fig. 2-2a

Step 5 Enter a location for VirtualClass to load its program files.

Step 6 Click **Next** to confirm the selections and to start installing VirtualClass on your computer.

Step 7 Click **Finish** to end the installation of the VirtualClass program files. After the installation is complete, you can launch VirtualClass and/or show the **Readme** file by selecting the appropriate checkboxes, as Fig. 2-2c shows.

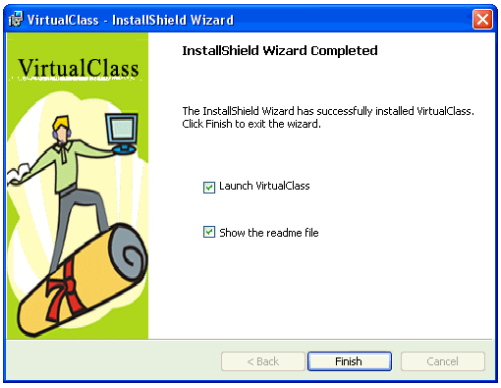


Fig. 2-2c

2-2.2 Silent Setup

With the silent installation feature, the network administrator can install this software onto all of the systems through a command line. VirtualClass will install on its own, without any end-user intervention.
The default installation path is: %WindowsDir%（Windows system location, e.g. C:)\Program Files\FarStone\VirtualClass.
If you would like to install the teacher portion silently, please insert the VirtualClass CD into your CD drive (e.g. E:) first. Then select **Start->Run** and type "**E:\setup.exe /s /t**" and press enter to start the installation.
If you wish to install the student portion silently, please insert the VirtualClass CD into your CD drive (e.g. E:), then select **Start->Run** and type "**E:\setup.exe /s /s**" and press enter to start the installation.

2-2.3 Remote Setup

VirtaulClass Remote Setup feature provides a continuing easy way for the teacher to deploy the client program

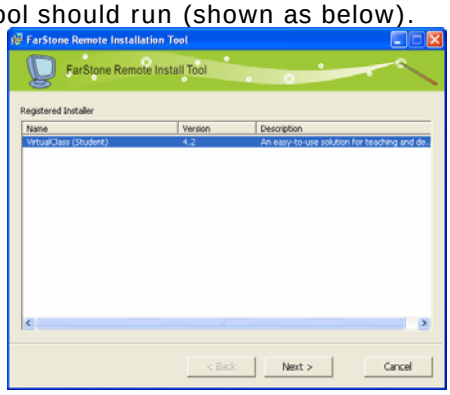
on student computers.

Before the teacher performs remote setup, please make sure the following requirements are met:

- VirtualClass Teacher program is installed on the teacher's computer.
- The Net access: sharing and security module in Local Security Settings is set to "Classic" on the student computers. (To set this option, click **Run** from Start Menu on windows, type in "secpol.msc" to launch **Local Security Settings** window. Locate **Security Settings>Local Policies> Security Option** from the directory in the left panel. Find the item **Network access: sharing and security model for local accounts** from the policy list in the right panel, double click it. In the popup dialog box, select **Classic-local users authenticate as themselves**, and click **Apply**.

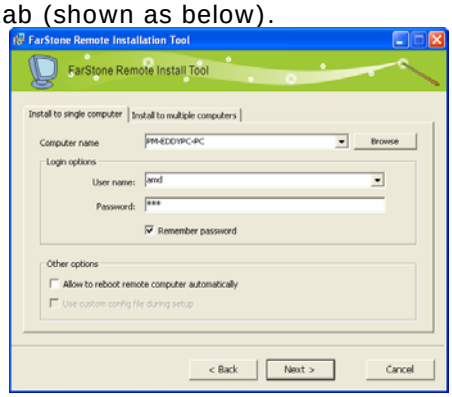
Follow the steps below to remotely install VirtualClass Student program on student computers.

Step 1. Select **All Programs>VirtualClass>Remote Install Tool** from the start menu on the teacher computer. FarStone Remote Install Tool should run (shown as below).



Step 2. Click **Next** to continue.

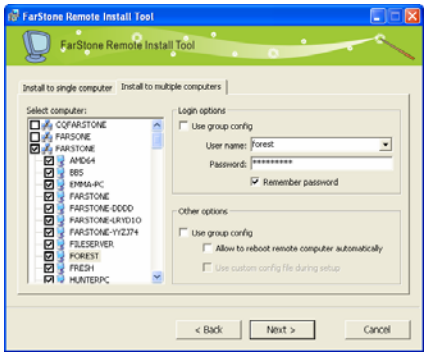
Step 3. (For single setup only)
Select **Install to single computer** tab (shown as below).



Enter the computer name. You can click **Browse** button to locate from the local area network list.

In Login options, enter the **user name** and **password** so that the installer can get the remote setup authentication on the student computer.

Step 4. (For multiple setups only)
Select **Install to multiple computers** tab (shown as below).



Note: To be able to install VirtualClass Student program on multiple computer in a group on a LAN simultaneously, make sure a Windows account with the same user name and password is created on all of these computers beforehand.

First you need to configure a group's login information. Click on one group name, and enter the same user name and password that was previously created in Login options on the right side. Remember to check the box "Remember password" below.

Then select the target computer to install the program on.
You can choose a whole group by clicking the box before the group name. When a whole group is selected, it will use the group configuration you have set just now as the login option for all the computers.
You can also double click a group name to unfold it and select some specific computers among them from the list. You can specify the login option for each computer one by one individually. When setting the login option for a computer, you can use the group configuration by checking the "Use group config" box, or enter another account name and password, and check "Remember password" option.

Note: Setting login option for a computer does not selecting it computer as a target computer. Please do remember to check the box before the computer name after you have set login option for it.

Step 5. Click **Next** to start installing VirtualClass Student on the selected computer. Click **Finish** to exit the setup tool when the operation complete.

2-2.4 Uninstalling VirtualClass

Step 1 Close VirtualClass before uninstalling it. Right-click on the VirtualClass icon in the system tray and select **Exit** from the popup menu to close VirtualClass.

Step 2 To uninstall the VirtualClass program, press **Start** in the Windows taskbar, and then either select (a) **Programs**/ **VirtualClass**/**Uninstall VirtualClass** or (b) **Start**/**Settings**/ **Control Panel** and double-click on the **Add**/**Remove Programs** icon to open the **Add**/**Remove Programs** menu. Select VirtualClass and then click on the **Add**/**Remove** button. Either method will launch the VirtualClass Uninstall Wizard. Select **Remove** to continue.

Note: The VirtualClass Student program cannot be removed either from **Programs** in the **Start** menu or from the Control Panel. You must run VirtualClass setup in order to uninstall the VirtualClass Student program, as is shown in fig. 2-3a.

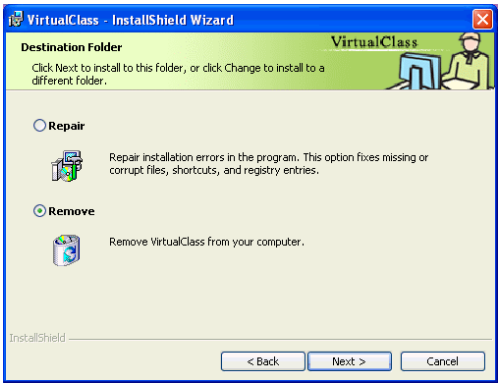


Fig. 2-3a

Step 3 Click **Next** in Fig. 2-3a. A message will display asking the user if he/she would like to keep the student list. If yes, the student list will remain the same next time VirtualClass is installed on the computer.

Step 4 Selecting either Yes or No will start the uninstallation process. After successfully removing VirtualClass from your computer, click OK.

Chapter 3

Using

VirtualClass Teacher Module

Chapter 3 Using VirtualClass—Teacher Module

3-1 Overview of Common Menus of VirtualClass Teacher Module

This section introduces the main interface, common menus, bars, buttons and quick-keys on the VirtualClass Teacher Module so that the user can be familiar with this application and use it easily.

3-1.1 Main Interface

Fig. 3-1a

Title Bar: Name of the application.
Menu Bar: All functions can be accessed through these menus.
Tool Bar: Common functions can be accessed through the buttons on this bar.
Information area: Shows information of a selected student; displays messages the teacher sent and received.
Student icon area: Shows whether a student has enrolled in this class. Highlighted icons indicate those students who are logged on. The little application icon is the current running application on the student computer.

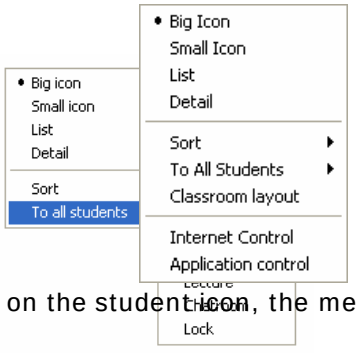
i.e. The icon shows the Office program "Microsoft Word" is currently running on this student computer.

Status bar: Lists the total number of students enrolled in this classroom, and the number of students currently logged in to this class.

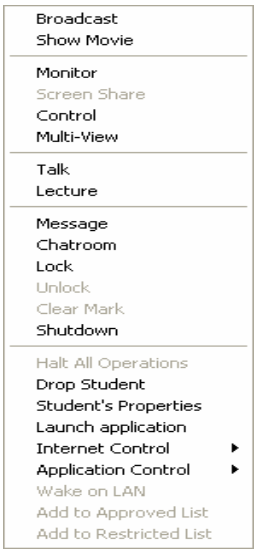
3-1.2 Right-button Menu

There are two different right-click menus, depending on where the arrow key stays.

The 1st case: When right-clicking the mouse in a blank part of the student icon area, the menu is as follows. The teacher can change the order of student icons. He/She can run common functions through the sub-menu "To all students".



The 2nd case: When right-clicking on the student icon, the menu is as follows. The gray indicates you cannot perform this function.



Note: When the Teacher is using the **Broadcast**, **Multi-View**, **NetMovie**, **Lecture**, **Chatroom** or **Lock** functions on selected student PC(s), right-clicking on any target student icon and then selecting **Halt all operations** will stop current operations for all selected student(s), not just the one that was right-clicked on.

3-1.3 Menu Bar

In the menu bar, the following sub-menus are included:
Manage: (see detailed introduction in a later chapter)
Teach: (see detailed introduction in a later chapter)
View: Selecting appropriate items, you can show/hide the tool bar, status bar and information area. You can also change the display of student icons.
Help: Entries for registration, entering serial number to upgrade an evaluation version to full version, version, "Online help" and "About" (version, copyright, and license information, etc.)

3-1.4 Tool Bar

Buttons in this bar enable the teacher to perform some common functions.

: Single-click it to broadcast the teacher's screen and voice message to a student or students.

: Single-click it to play and broadcast digital media such as video clips, VCDs or MP3s to students' computers.

: Single-click it to view a selected student's screen.

: Single-click it to broadcast a student's screen to others.

: Single-click it to control a student's computer remotely.

: Single-click it to display multiple students' screens.

: Single-click it to broadcast the teacher's voice message to student(s).

: Single-click it to chat with a selected student.

: Single-click it to send a text message to student(s)

: Single-click it to communicate with specified student(s) in text.

: Single-click it to stop the current operation. This function is somewhat like the ESC button.

: Single-click it to lock a student's computer.

: Single-click it to unlock a student's computer.

: Block all Internet access on the all student computers.

: Click the triangle beside it to select a view mode from the dropdown list.

3-1.5 VirtualClass Lit Interface

The lit interface is a floating bar containing some common function buttons. It appears on the upper screen when the teacher hides the main interface.
The bar is as follows:

Two of these buttons need to be introduced:

E-Tablet: It enables the teacher to highlight important areas of the screen to be broadcast.

Back: Single-click it to go back to the main interface.

3-2 Start VirtualClass Teacher

3-2.1 Launch VirtualClass Teacher Module

Installing the VirtualClass Teacher program will add the VirtualClass icon to the Teacher's desktop. You can launch VirtualClass by either (a) **double-clicking the icon,** or (b) selecting **Start Menu -> Program -> VirtualClass Teacher**.

When VirtualClass is started, the teacher will be asked to select an empty classroom to start the class, as shown

in Fig. 3-2a. Click **OK** to confirm your selection and start VirtualClass.
Notice: The classroom selected in the first launching would be the default room until you change the default. The way of changing the default is explained in a later section.

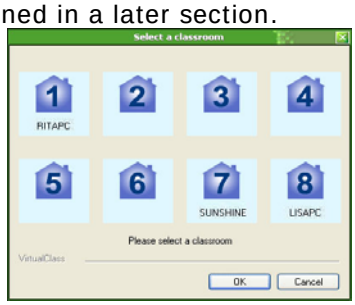


Fig. 3-2a

Once VirtualClass is started, two small icons as follows will be placed in the Windows system tray.

VirtualClass

VirtualClass Live-Update Service

3-2.2 Hide the Main Interface

When the teacher minimizes the main interface, it is hidden, and the lit interface will appear. There are two ways to turn back to the main interface.

1. Click the “Back” button on the lit interface bar.
2. Right-click the “VirtualClass” icon in the Windows system tray, and select “Show” in the popup menu.

3-2.3 Exit VirtualClass Teacher

You can either select **Manage -> Exit** in the **Menu Bar** of the main interface, (if in lit interface, turn back to main interface first) or right-click the “VirtualClass” icon in the Windows system tray, and select “Exit” in the pop-up menu.

Note: Even if the VirtualClass Teacher has already exited, the VirtualClass Student application is still running. In this case, the icon on the student computer will change to .

3-3 Teaching Management

3-3.1 Students Management

- **Rename a student**

The teacher can change a student’s name by using one of these two options:
1. Select one student, **Manage** in Menu Bar, and then select **Rename**;
2. Select one student, and then press F2 on the keyboard.

- **Drop a student**

The teacher can drop a student out of the class by using one of these two options:
1. Select one student, select **Manage -> Drop student**;
2. **Right-click** this icon and select **Drop student** in the popup menu.

Note: When this function is performed, the dropped student’s icon still exits in the classroom, but in the offline status.

- **Delete a student**

The teacher can delete a selected student by selecting **Manage -> Delete student** in the Menu Bar. When this function is performed, the deleted student’s icon will be deleted from this classroom. It will appear only when he logs in to this classroom again.

- **View a student’s properties**

There are two ways to perform this function:
1. Select student(s), click **Manage** in the Menu Bar, then select **Student’s Properties** in the popup menu.
2. **Right-click** on a student icon, and select **Student’s Properties** in the popup menu.

Note: The teacher can view a selected student’s name, account, computer name, IP address and status. If more than one student is selected, the teacher can view the number of selected students and online students.

3-3.2 Save Classroom Layout

VirtualClass automatically saves the classroom layout when you change a student’s position through drag-and-drop. The teacher can change the number of the column according to his/her need.
Right-click on any space in the student icon area and select **Classroom Layout** to specify the number of the columns and rows in this classroom.

3-3.3 System Preference

Select **Manage -> Preference** to display the preference dialog, as is shown in Fig. 3-3.2a.

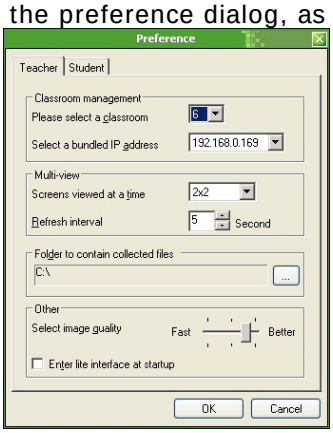


Fig. 3-3.2a

- **Preference—Teacher (Fig 3-3.2a)**

Classroom management:
Select a classroom: The teacher can re-select a classroom in this list.
Select a bundled IP address: When there is more than one network adapter and IP address on the teacher computer, he/she can select one as the default address bundled to the VirtualClass application.

Multi-view:
Screens viewed at a time: The teacher can decide on the number of student screens viewed at a time.
Refresh interval: The teacher can decide to refresh the multi-view on an interval between 5 to 30 seconds.

Other:
The teacher can set the image quality by moving the slide bar.
From left to right, the transfer speed decreases, but image quality increases.

- **Preference – Student (Fig. 3-3.2b)**

The teacher can enable/disable the student's ability to perform certain operations, or remotely set the configuration of student computers by properly selecting the checkboxes, as shown in Fig. 3-3.2b

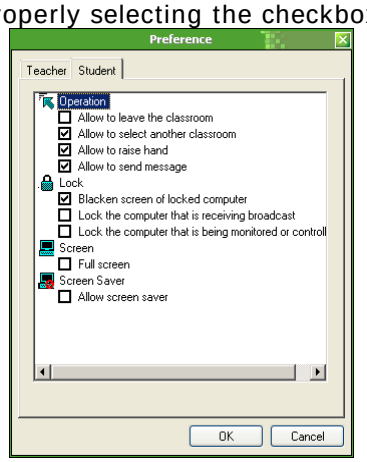


Fig. 3-3.2b

3-4 Broadcast

Screen broadcast mode broadcasts exactly what is displayed on the Teacher's screen to all students logged on for the Class.
Note: 1) When the "Lock the computers that are receiving broadcasts" option is selected in the Preference--Student dialog (Fig 3-3.2b), the students' controls are disabled while this mode is active.

2) While the broadcasting mode is active, the main interface will turn into the lit interface automatically.
3) The teacher can broadcast to a selected student or to all students in the classroom.

After student(s) is/are selected (if none are selected, the default is all students), there are four ways to activate this mode:

1. Single-click the

icon in the Tool Bar;
2. **Right-click** on one of the selected student icons and select **Broadcast** in the popup menu; if broadcasting to all students, **right-click** on the blank space of the student icon area, go to "**To all students**" option, and select **Broadcast** in the popup menu.
3. Select a student/students, then select **Teach** in the Menu Bar, and choose **Broadcast** in the dropdown menu;
4. To select a student/students, simply press "**Ctrl+B**" on the keyboard.

3-5 Monitor Student Screen

VirtualClass provides a monitoring mode for the teacher to know exactly what the students are doing. The teacher can even take full control of a student computer if needed. There are two modes: Monitor and Multi-View.

3-5.1 Monitor

It is a one-one-view mode. The teacher can monitor a selected student. When this mode is activated, the selected student's screen is shown in a window on the teacher's computer. The title of the monitoring window displays the number and name of the student, and its IP address. Clicking the button can stop this operation.
There are four ways to activate this mode:

1. Select a student. Single-click the

icon in the Tool Bar;
2. **Right-click** on the selected student icon, and select **Monitor** in the popup menu;
3. Select **Teach** in the Menu Bar, and then select **Monitor** in the dropdown menu;
4. Simply press "**Ctrl+V**" on the keyboard.

3-5.2 Multi-View

In the Multi-View mode, the teacher can view up to 16 screens at the same time. When more than 16 screens need to be viewed, then VirtualClass will Cycle through, viewing each group of 16 computer screens for a set cycle interval.
Note: To set the cycle interval, go to **Manage** on the Menu Bar and select **Preference** from the dropdown menu to open the Preference window. Select the **Teacher page**, and then edit the 'Refresh interval'.

After one or more students are selected (if none are selected, the default is all students), there are four methods to activate this Multi-View mode:

1. Single-click the

button in the Tool Bar;
2. Right-click on one of the selected student icons, and select **Multi-View** in the popup menu; if broadcasting to all students, **right-click** on the blank area of the student icon area, go to "**To all students**" option, and select **Multi-View** in the popup menu.
3. Select a student or students. Choose **Teach** in the Menu Bar, and then select **Multi-View**;
4. Select a student or students. Press "**Ctrl+H**" on the keyboard.

Note: 1) If clicking the Multi-View button in the lit interface, all students are chosen to be viewed by default.
2) When multi-view mode is activated, the multi-view window is displayed on a full screen mode on the teacher screen. In this window, the teacher can control, lock/unlock or send a message to one of the student computers.
3) Clicking the button can stop this mode and return you to the main interface.

3-6 Share Student Screen

Screen Share allows the Teacher to relay a selected Student's screen to all other students logged on to the Class.

There are four ways to perform this function:

1. Select a student, single-click the button in the Tool Bar;
2. Right-click on the selected student icon, and select "**Screen Share**" in the popup menu.
3. Select a student. Choose **Teach** in the Menu Bar, and then select **Screen Share**;
4. Select a student. Press "**Ctrl+R**" on the keyboard.

When this operation is performed, a dialog titled VirtualClass - Screen Share will pop up on the screen, as is shown in Fig. 3-6a. Select receivers from the list in the lower box and click **OK** to start Screen Share.

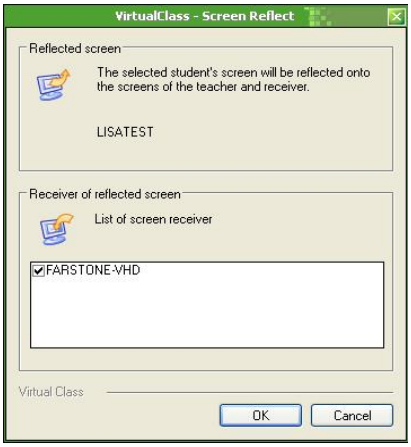


Fig. 3-6a

3-7 Control Student Computer

The teacher can **remotely control** a student computer, so that he/she can tutor a selected student if necessary. There are four ways to perform this function:

1. Single-click the button in the Tool Bar;
2. Right-click on one of the selected student icons, and choose **Control** in the popup menu;
3. Select a student. Choose **Teach** in the Menu Bar, then select **Control**;
4. Select a student. Press "**Ctrl+C**" on the keyboard.

Under Remote Control, the screen of the student computer will be displayed in a window on the Teacher's screen. The student's number, name and IP address are displayed in the title bar of this window. The teacher can take full control in this window just like operating from the student computer.

Note: 1) If the teacher selects the "Lock the computer that is being controlled" option in **Manage** -> **Preference** -> **Student** -> **Lock**, the controlled student cannot operate on their own computer; otherwise, both the teacher and the controlled student can operate.
2) Click the button to stop controlling the student computer.

3-8 Lecture

VirtualClass can simultaneously broadcast the teacher's voice to all students in the class. This function can be performed when student's screens are "black locked" so that the teacher can force students to listen to his/her lecture attentively.
The teacher can lecture to one or more selected student(s), or to all students in the classroom.
There are four ways to enter lecture mode:

1. Single-click the button in the Tool Bar;
2. Right-click on one of the selected student icons and select **Lecture** in the popup menu; if the lecture is to all students, **right-click** on the blank area of the student icon area, go to the "**To all students**" option, and select **Lecture** in the popup menu.
3. Select a student or students. Choose **Teach** in the Menu Bar, and then select **Lecture**;
4. Select a student or students. Press "**Ctrl+N**" on the keyboard.

Note: 1) If clicking the Lecture button in the lit interface, the default target student is the whole class.

2) When a student is receiving the lecture, his/her icon changes to .

3-9 Talk to Student

The teacher can talk to a selected student privately. There are four ways to perform this function:

1. Single-click the button in the Tool Bar;
2. Right-click on one of the selected student icons and choose **Talk** in the popup menu;
3. Select a student. Choose **Teach** in the Menu Bar and select **Talk**;
4. Select a student. Press "**Ctrl+T**" on the keyboard.

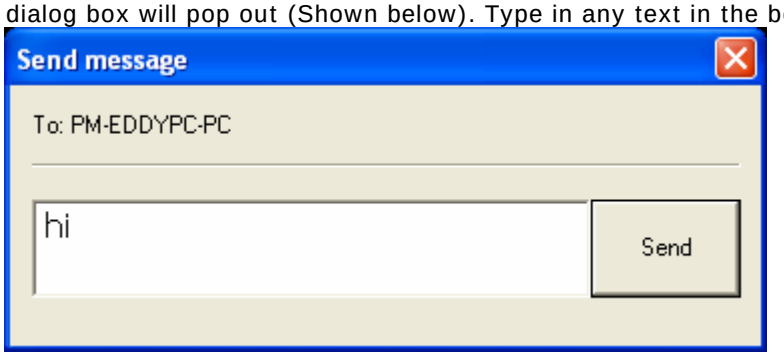
Note: When a student is under the talk mode, his/her icon changes into

3-10 Send Message to Student

The teacher can send a message to one or several student(s), or to all students in class. If no student is selected, the default is to all students. There are four ways to perform this function:

1. Single-click the button in the Tool Bar;
2. Right-click on one of the selected student icons, and select **Message** in the popup menu; if sending a message to all students, right-click on the blank area of the student icon area, go to the "**To all students**" option, and select **Message** in the popup menu.
3. Select a student or students. Choose **Teach** in the Menu Bar, and then select **Talk**;
4. Select a student or students. Press "**Ctrl+S**" on the keyboard.

A **Send Message** dialog box will pop out (Shown below). Type in any text in the box and clik Send.



Upon receiving the text, a dialog box will pop out on student computer displaying the message. The student can click Reply button on the dialog box to interact with the teacher.

Note: 1) The teacher can enable/disable the ability of students to send messages to him/her.
2) Students cannot send messages to each other.

3) Typing message in the text frame of the Message Area, and clicking the send button on the right can also send the message to all students in class.

3-11 Text Communicate in Chatroom

The teacher can communicate with a selected student or with all students in the class using text. There are fours ways to enter the chatroom mode:

1. Single-click the

button in the Tool Bar;
2. Right-click on one of the selected student icons, and select **Chatroom** in the popup menu; If all students are supposed to enter the chatroom, right-click on the blank area of the student icon area, go to the "**To all students**" option, and select **Chatroom** in the popup menu.
3. Select a student or students. Choose **Teach** in the Menu Bar, and then select **Chatroom**;
4. Select a student or students. Press "**Ctrl+O**" on the keyboard.

Note: If you click the Chatroom button in the lit interface, all students will enter the **Chatroom** by default.

After the Chatroom is activated, a Chatroom window will appear on the screen, as shown in Fig. 3-11a.

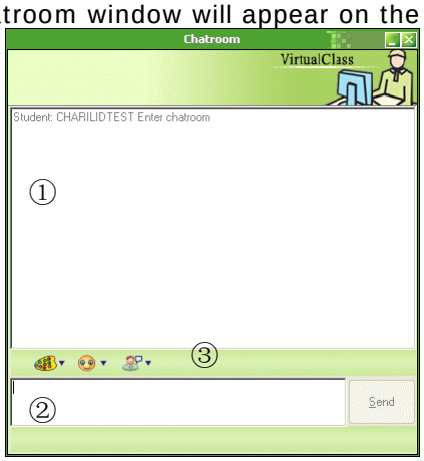


Fig. 3-11a.

• Message area: All messages displayed in the frame.
• Typing area: Type your message in this frame, and click the **Send** button on the right to display it in the Message area.
• Function Bar:
Click to change the color of the word you typed out;
Click to insert a face expression icon;
Click , and the "Add student list" dialog box will pop up on the screen, as shown in Fig. 3-11b.

Fig. 3-11b

Student Name, Computer Name and IP address of all online students will appear in this box. The teacher can invite selected student(s) into, or drop selected student(s) out of the Chatroom.

3-12 Send and Receive Files

With this function, the teacher can distribute files, pictures or applications needed in teaching a specified student or to all students in the class. He/She can also collect students' work in his/her own computer for checking.

3-12.1 Distribute File to student

The teacher can distribute files to a selected student or to all students. If none is selected, the default is to all

students in class.
After selection, there are two ways to perform this function:
1. Select "**Teach -> Distribute file**" in the Menu Bar;
2. Press "**Ctrl+P**" on the keyboard.

After this operation, a "Distribute files" dialog box will appear on screen, as shown in Fig. 3-12a.

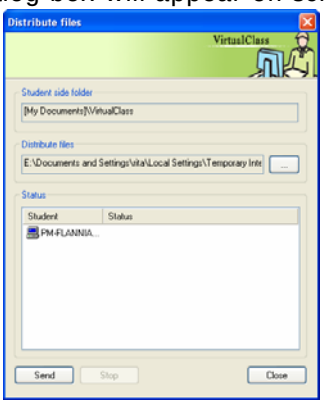


Fig. 3-12a

Select the file to be distributed from the teacher's computer and click the **Send** button.
The teacher can stop distributing during the operation by clicking the **Close** button below.

3-12.2 Collect Files from Student

The teacher can collect files from a selected student or from all students. If none is selected, the default is all students in the class.
After selection, there are two ways to perform this function:
1. Select "**Teach -> Collect file**" in the Menu Bar;
2. Press "**Ctrl+D**" on the keyboard.

After this operation, a "Collect files" dialog box will appear on screen, as shown in Fig. 3-12b.

Fig. 3-12b

In **Save to** box, select a path on the local computer to save the collected file.
Click the drop down button beside **File to be collected** box to display the list of files previously sent to students.
Select the file to be collected from the list and click **Collect** button.

3-13 VirtualClass e-Tablet

E-Tablet is designed to complement VirtualClass while it is in 'Screen Broadcast' mode. E-Tablet provides a wide range of drawing functionality that can be used to assist the teacher in directing the students' attention toward a point of interest and/or highlighting important areas of the screen to be broadcast.
VirtualClass e-tablet can only be opened in the lit interface.

3-13.1 Open e-Tablet

To open VirtualClass e-Tablet, click the e-Tablet button on the lit interface. Then an e-Tablet tool box will appear on the upper right screen, as shown in Fig. 3-13.1a.

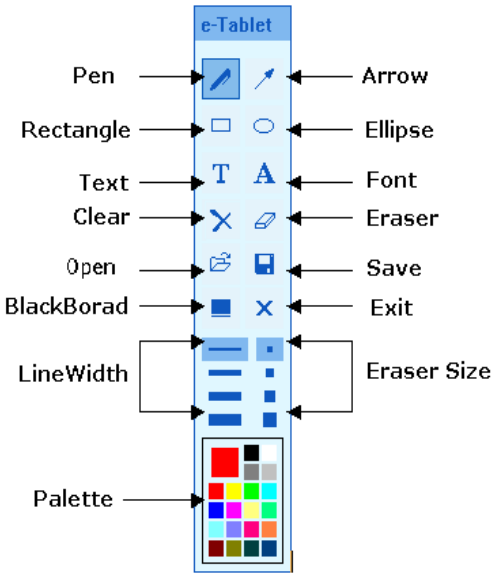


Fig. 3-13.1a

3-13.2 Use e-Tablet drawing tools

To use the e-Tablet drawing tools:

Step 1 Single-click on the chosen tool (the active tool will be highlighted).

Step 2 Move the mouse cursor to the point where you want to begin drawing on the screen and single-click to set the 'start draw' point.

Step 3 Move the cursor to where you want the drawing to end and single-click again to set the 'end draw' point.

Step 4 The image you created can be saved on the hard disk by selecting **Save** on the drawing tools box. You can open an existing image by selecting **Open** as well.

Note: (1) Right-clicking on any part of the screen will hide the drawing tool.

(2) The tools in this box are used in the same way as other drawing tools, such as the Paint function in Windows accessories.

3-14 Raise Hand

With the 'Raise Hand' function, a student can send a notice to the Teacher indicating he/she wishes to ask a question. After the student uses this function, his/her icon will change to . Then the teacher can answer the student by giving a lecture, sending a message, or inviting him into the chatroom.
The teacher can clear the hand mark in one of three ways:

1. Right-click the icon, and choose "**Clear Mark**";
2. Select the hand-raised student, click Teach in the Menu Bar, and choose "**Clear Mark**";
3. Select the hand-raised student, press "**Ctrl+E**" on the keyboard.

After the **Clear Mark** action, the student icon will turn back to .

3-15 Remote Power On/Off

The teacher can remotely remotely start up or shut down a selected student's computer using one of two methods:
1. Select student(s), choose "**Manage -> Power On/Power Off**" from the Menu Bar;
2. Right-click on the selected student(s), choose **Power On/Power Off** in the popup menu.

At a system power off, you will see a notice dialog as shown in Fig. 3-15a.

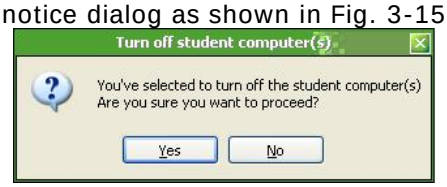


Fig. 3-15a

Click "Yes" to shut down. After this operation, the student icon will change into offline status (gray colored).
Click "No" to abandon the shutdown operation.

3-16 Lock/Unlock Student Computer

3-16.1 Lock student computer

The teacher can 'black lock' a selected student's computer or lock all student computers. After selection, there are four ways to lock a student's computer: (If none is selected, the default is to all students in the class.)

1. Single-click the

button in the Tool Bar;
2. Right-click on one of the selected student icons, and select **Lock** in the popup menu. If all students are supposed to be locked, **right-click** on the blank area of student icon area, go to the "**To all students**" option, and select **Lock** in the popup menu.
3. Select a student or students. Choose **Teach** in the Menu Bar, and then select **Lock**;
4. Select a student or students. Press "**Ctrl+L**" on the keyboard.

Note: 1) If clicking the Lock button in lit interface, the default target is all students in the class.

2) When a student computer is locked, his/her icon will change to .

3-16.2 Unlock Student Computer

When the teacher would like to unlock student computers, it can be done using one of the following three methods:

1. Select locked student(s) (if none are selected, default is all locked students.). Click unlock button

in the Tool Bar;
2. Select locked student(s). Right-click on one of selected icons, and choose **Unlock** in the popup menu;
3. Select locked student(s) (if none is selected, default is all locked students.). Choose **Teach** in the Menu Bar, then select **Unlock**;
4. Select locked student(s) (if none is selected, default is all locked students.). Press "**Ctrl+U**" on the keyboard.

Note: 1) If clicking the Unlock button in the lit interface, the default is to unlock all locked students.

3-17 Remotely Run Application on Student Computer

3-17.1 Edit Applications List

VirtaulClassVirtualClass allows the teacher to remotely run applications on student computers. The teacher should first edit the Launch Application list from which he/she can choose to run later on during the teaching process.

Select **Teach** from menu bar, then **Launch Application** to open the Launch Application list. (shown in Fig 3-17a)

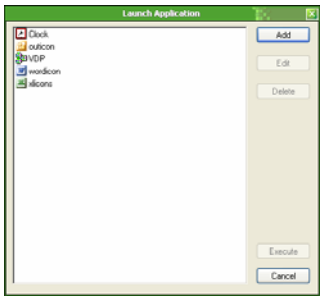
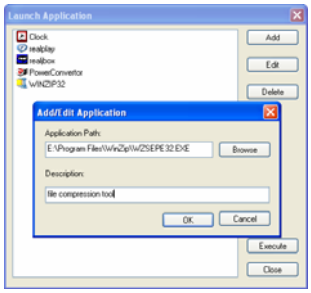


Fig. 3-17a

To add an application to the list, click **Add** button on the right. Then click **Browse** to select the execute file of the program from your local hard disk. (**Note**: The application should be installed to the same directory on both teacher computer and the student computer. The teacher specifies the application from his/her local computer.) Enter any description for it and click **OK**.



To edit the program path or description, select the application and click **Edit** button.
To delete the program from the list, select the application and click **Delete**.

3-17.2 Remotely Launch Applications Student Computer

Select one or more target student computer(s) on which to launch the application. Use one of the following methods to start this operation:

1. selectSelect **Teach** from menu bar, then **Launch Application**;
2. right Right-click on the selected student(s) and choose **Launch Application** from the popup menu.

The application list should appear. Select the application to run from the list and click **Execute**.

Note: The application should be installinstalled to the same diretorydirectory both on the teacher computer and the student computer.

3-18 Application Control on Student Computer

3-18.1 Edit Application Control List

The teacher can control student's rights to execute applications on local computers. He/she can give full rightrights to students or allow them to run specified applications only.

To control application execute rightrights on a student computer, the teacher must first edit the application control list.

Select **View** from the menu bar, then **Application Control**. You will see Application Control panel appears at the bottom of the program interface. (Shown in Fig. 3-18a)

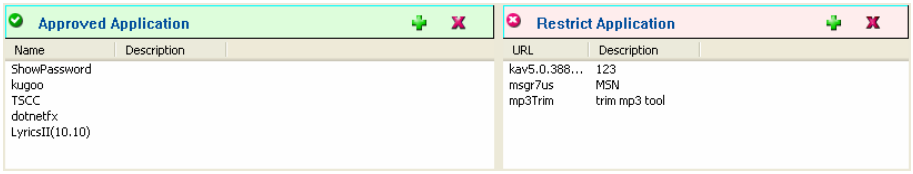


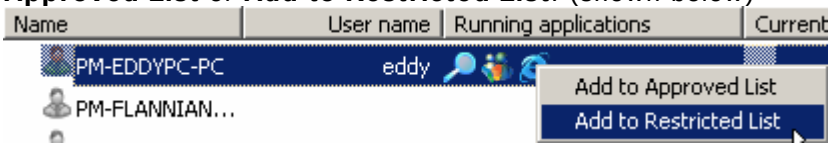
Fig. 3-18a

The left part is the approved list. The right part is the restricted list. Below is description on how to operate in the approved list. Operating in the restricted list follows the same procedures.

To add an application to the approved list, click the Add button on the upper right. Click **Browse** to select an application from your local computer and add any descriptions to it. Click **OK** to return.

Note: Application Control is ineffective if the specified application is not installed on the student computer. The installation path on the student computer needs NOT to be the same with that on the teacher computer.

There is another convenient way to add applications to both lists. In **Detail View** mode, all running applications are listed under **Running applications** item. You can right click on the application icon and select **Add to Approved List** or **Add to Restricted List**. (shown below)

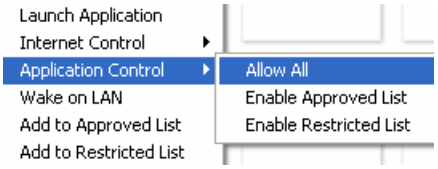


3-18.2 Application Control Policy

Once the approved and restricted lists are configured, the teacher can choose a policy to enforce the application control on student computers.

Select one or more student computer(s) to apply the application control policy on. Then right -click on the selected students and choose **Application Control** from the popup menu, than chose one policy from the three:

Allow All: Do not apply any restriction on application execution. All applications on the student computer can run normally.
Enable Approved List: Only allow the application on the approved list to run.
Enable Restricted List: Applications on the restricted list cannot run student computer. All others can run normally.



3-19 Internet Control on Student Computer

3-19.1 Edit Internet Control List

The teacher can control student's internet access privilege. He/she can disable all access to all websites or allow them to visit specific websites only.

To control internet access on student's computer, the teacher must first edit the website list.

Select **View** from the menu bar, then **Internet Control**. You will see the website control panel appears at the bottom of the program interface. (shown in Fig. 3-19a)

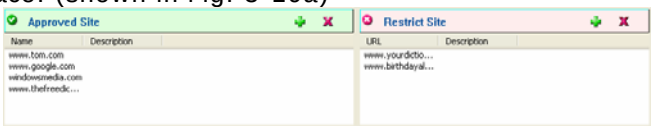


Fig. 3-19a

The left part is the approved list. The right part is the restricted list.
Operations to the approved list are introduced below. Operations to the restricted list are the same.

To add a website to the approved list, click the Add button on the upper right, the Add/Edit Website dialog box appears (Fig. 3-19b). Enter the address in the URL box and enter any description in the Description box. You can also enter some keywords to identify the website when the program tries to restrict or approve it. Click **OK** to finish and return.

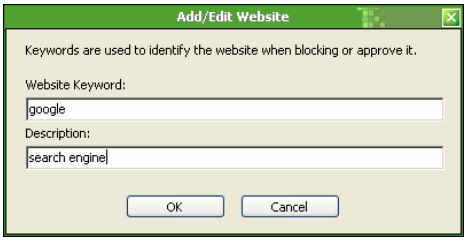
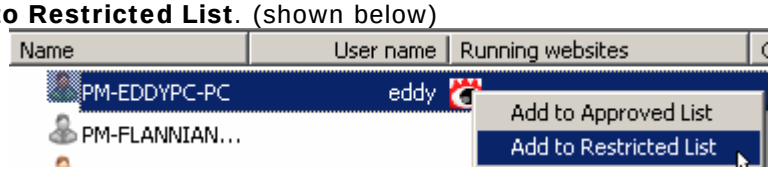


Fig. 3-19b

There is another convenient way to add applications to both lists. In **Detail View** mode, all running applications are listed under **Running applications** item. You can right click on the application icon and select **Add to Approved List** or **Add to Restricted List**. (shown below)



3-19.2 Internet Control Policy

Once the approved and restricted lists are configured, the teacher can choose a policy to enforce the internet control on student computers.

Select one or more student computer(s) to apply the internet control policy on. Then right -click on the selected students and choose **Internet Control** from the popup menu, than chose one policy from the four: (see Fig. 3-19c)

Allow All: Do not apply any restrictions on website access.
Enable Approved List: Only allows access to the websites in the approved list.
Enable Restricted List: Websites in the restricted list cannot be accessed on student computers. All others can be accessed normally.
Block All: If this policy is enabled, the student cannot visit any website on their computer.

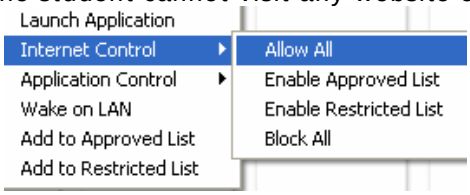


Fig 3-19c

Chapter 4

Using

VirtualClass Student Module

Chapter 4 Using VirtualClass—Student Module

4-1 Start VirtualClass--Student and Student Menu

4-1.1 Start VirtualClass

Installing the VirtualClass Student program will add the VirtualClass icon

to the Student's desktop. You can launch VirtualClass by either (a) **double-clicking the icon,** or (b) selecting **Start Menu -> Program -> VirtualClass Student**.
After launching VirtualClass Student, there will be a VirtualClass icon on the Student computer's taskbar, as shown in the red circle in Fig. 4-1.1a. When the mouse passes over the icon, a note will appear indicating the Teacher Computer Name that is currently logged on.

Fig. 4-1.1a.

Note: 1) Normally, when a Teacher comes online, the Student computer will automatically be logged into any Class of which they are a member.
2) If there is no Teacher online, the VirtualClass offline icon will be shown in the Student's taskbar.
3) When launching VirtualClass Student for the first time after installation, a **Select a Classroom** dialog box will pop up, as shown in Fig. 4-1.1b.

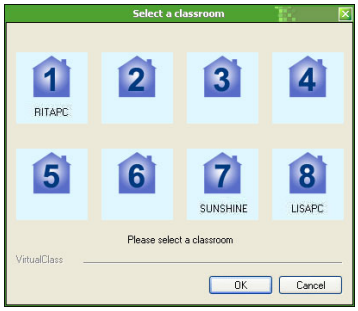


Fig. 4-1.1b

After selecting one classroom and clicking **OK**, the Student Computer will automatically check the versions between the Student and Teacher computers. If a higher version is detected on the Teacher computer, the Student will automatically be upgraded to the same version.

4-1.2 Student Menu

If you right-click on the VirtualClass icon in the taskbar, the student menu will pop up, as shown in Fig. 4-1.2a.

Fig. 4-1.2a

Fig. 4-1.2b

Note: 1) When Right-clicking on the offline icon, the menu is as Fig.4-1.2b shows;
2) Some functions may be disabled by the Teacher Computer. Disabled function options are gray and cannot be used;

3) Help: Click it to open the online help file.
About: Click it to view version, copyright and license information.
View received file: Clicking it will display collected file list.

Other functions will be introduced in the following sections.

4-2 Raise Hand

By clicking the **"Raise Hand"** option in the student menu, students can send notice to the Teacher indicating he/she wishes to ask a question.

After the student uses this function, his/her icon on the Teacher Computer will change to to raise the teacher's attention. Then the teacher can answer by choosing a proper method.
Note: The student cannot perform this operation if the teacher unchecks the **Allow to raise hand** box in the VirtualClass preferences.

4-3 Send Message

With this function, the student can send messages to the teacher.
Right-click on the VirtualClass icon in the task tray, and click "**Send Message**" in the popup menu, and then a **Send Message** dialog box will be displayed on the screen as shown in Fig. 4-3a.

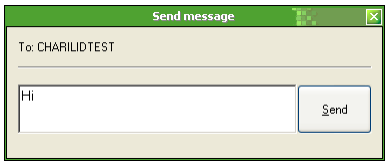


Fig. 4-3a.

Note: If the teacher unchecks the **Allow to send message** box in VirtualClass preferences, then students cannot perform this operation.

4-4 Select a Classroom

If allowed by the teacher to select a classroom, the students can right-click on the VirtualClass icon in the task tray and click "**Select a Classroom**" in the popup menu. Then a **Select a Classroom** dialog box will be displayed, as shown in Fig. 4-4a. Select the classroom and click OK to enter.

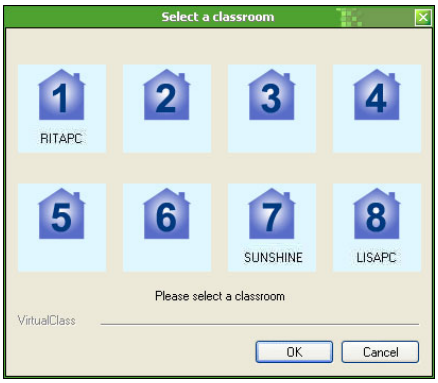


Fig. 4-4a

4-5 Manual Logon

If allowed by the teacher to select a classroom, the student can also choose to log on to a classroom manually. Right-click on the VirtualClass icon in the task tray and click "**Manual Logon**" in the popup menu. Then a **Manual logon** dialog box will be displayed as shown in Fig. 4-5a.

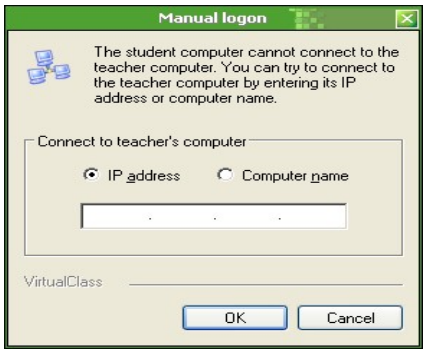


Fig. 4-5a

The student can type in the IP address or name of the Teacher Computer, and click **OK** to log on to that Teacher Computer.

4-6 View Received Files

When the teacher sends a file to a student, a notice window (Fig. 4-6a) will instantly appear on the bottom right. Clicking the file name in the collected file list will open this file.

Fig. 4-6a

4-7 Receive and Reply to a Message

When the teacher sends a message to a student, a Message dialog box will instantly pop up on student screen, as shown in Fig. 4-7a.

Fig. 4-7a

Click **Reply** to show Fig. 4-7b. Type message in the dialog box and send it back to the teacher.

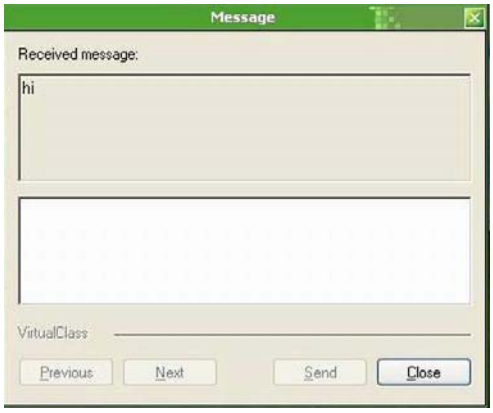


Fig. 4-7b

4-8 Exit Classroom

To Exit the VirtualClass Student program, right-click on the small icon on the taskbar, and then select **Exit** from the dropdown menu.

Note: The students themselves cannot close the VirtualClass student program if the teacher has checked **Prevent students from exiting VirtualClass** box.

Chapter 5

Using

VirtualClass NetMovie

Chapter 5 VirtualClass NetMovie

5-1 VirtualClass NetMovie - Introduction

The NetMovie Manager provides a convenient way of managing and running multimedia files on CD, hard disk and on LAN. It also enables you to broadcast live and/or play live recordings, from within VirtualClass. NetMovie adapts a Client/Server mode; supports most multimedia formats such as ASF, WMV, WAV, MPEG, DAT, and MP3, etc. NetMovie is also an excellent tool for creating, classifying, adding and organizing your multimedia resources.

Note: Beside files types mentioned above, other type of multimedia files can also run if DirectShow Filter is installed on both Teacher and Student computers.

5-2 NetMovie Manager - Teacher

NetMovie Manager will appear on the Teacher's screen when activated, as shown in Fig. 5-2a.

Fig. 5-2a

Note: Before the teacher plays a multimedia in NetMovie, he/she must make sure the file also exits on the Student computer. Virtual would automatically locate the file in "My Documents/VirtualClass" on Student computer. The teacher can use **Distribute File** function to send the file to this directory before he/she play it using NetMovie.

.

5-2.1 Activate NetMovie

Select the student(s) you want to receive NetMovie (if none is selected, the default is to all students). Then the teacher can show NetMovie using one of the following four methods:

1. Click the NetMovie button

in the Tool Bar;
2. Right-click on one of the selected student icons, and select **Show Movie** in the popup menu; If all students are supposed to see the movie, **right-click** on the blank area of student icon area, then choose the "**To all students**" option, and select **Show Movie** in the popup menu.
3. Select a student or students, then select **Teach** in the Menu Bar, and choose **Show Movie** in the dropdown menu;
4. Select a student/students and press "**Ctrl+M**" on the keyboard.

Note: If clicking the NetMovie button in the lit interface, by default all students are chosen to see the movie.

5-2.2 Working Around in NetMovie Manager

All of the functions introduced below can be accessed in the right-click menu. The menu will be displayed when

you right-click the mouse on any part of the NetMovie Manager. As shown in Fig. 5-2.2a.

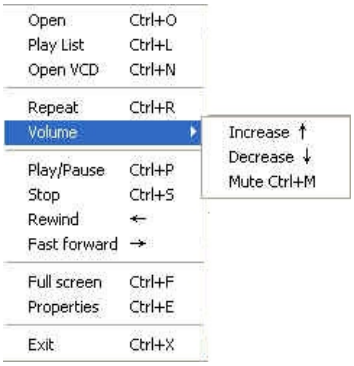


Fig. 5-2.2a

- **Play Multimedia Files**

There are three methods to play a file:

1. Click on the open file button below the play screen;
2. Right-click on any part of the NetMovie Manager and select **Open** in popup menu to open a file;
3. Press "**Ctrl+O**" on the keyboard to open a file.

In **Open** window, the teacher can enter a network path to display a video on the Internet, or select a file from his/her local computer.

Note: If the teacher chooses a multimedia file from his/her local computer, he/she must make sure the file is also exit on computer. He/she can use **Distribute File** function to send the file to Student computer before he/she play it using NetMovie.

- **Play list**

1) Single-click on the **Play List** button , or 2) Select **Play List** in the right popup menu, or 3) Simply pressing "**Ctrl+L**" can show the **Play List** dialog box shown in Fig. 5-2.2b.

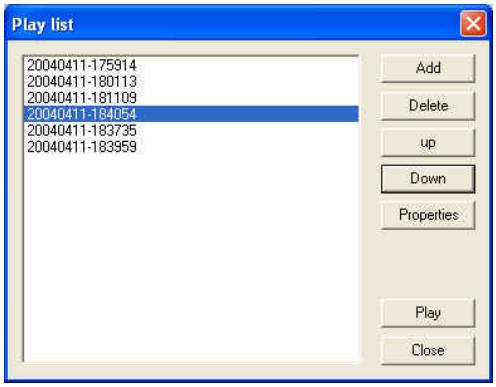


Fig. 5-2.2b

The NetMovie player will play files on the list in sequence. The teacher can **add**, **delete** and **change the sequence** of files on the list. He/She can also **view the properties** of selected files by clicking the **Properties** button and displaying the Properties window, as shown in Fig. 5-2.2c.

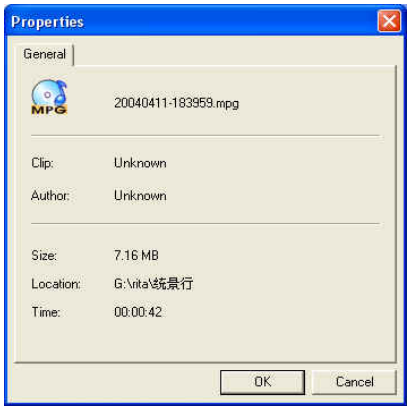


Fig. 5-2.2c

- **Play Control**

Play Mode	Button	Description
Play		Play a file after it is paused or stopped
Pause		Pause a file that is currently playing
Stop		Stop a file that is currently playing
Previous		Go back to the beginning of this file
Rewind		Skip backward when playing a file
Skip Forward		Skip Forward when playing a file
Next		Play the next file on file list

- **Volume**

The Teacher can adjust the playing volume by dragging the volume bar shown in Fig. 5-2.2d.

Fig. 5-2.2d

Note: 1) From top to bottom, the volume decreases to mute mode.

2) The teacher can directly enter mute mode by clicking the button below the play screen.

- **Close Multimedia File**

The Teacher can close a file during the displaying process by clicking the close button below the play screen.

- **Exit NetMovie**

The Teacher can exit NetMovie Manager by clicking on the close window button or by selecting Exit from the right-click menu.

5-3 NetMovie - Student

Starting the NetMovie on the Teacher's computer will launch the NetMovie display on the student computer automatically to receive the movie simultaneously. The NetMovie display that is visible on the student computers is shown in Fig. 5-3a.

Fig. 5-3a

While receiving NetMovie, students can perform the following operation:

- Adjust the display window to full screen by clicking the button .
- Hide the display window by clicking the button .
- Return to normal size by right-clicking the mouse under full screen mode.
  Note: these functions cannot be performed if the Teacher has checked the **Full Screen** box in the VirtualClass preferences.
- Adjust the playing volume by dragging the volume bar .

Chapter 6

Using

VirtualClass Keypad

Chapter 6 VirtualClass Keypad

6-1 VirtualClass Keypad Introduction

VirtualClass Keypad is an external hardware device, shown in Fig. 6-2b. The teacher can perform the most commonly used functions by simply pressing a key on this pad. The keypad makes teaching much easier and more convenient.

6-2 Install VirtualClass Keypad

Connect the VirtualClass keypad to the PS/2 port on the teacher computer and connect the standard keyboard to another port on the VirtualClass keypad, as shown in Fig. 6-2a.

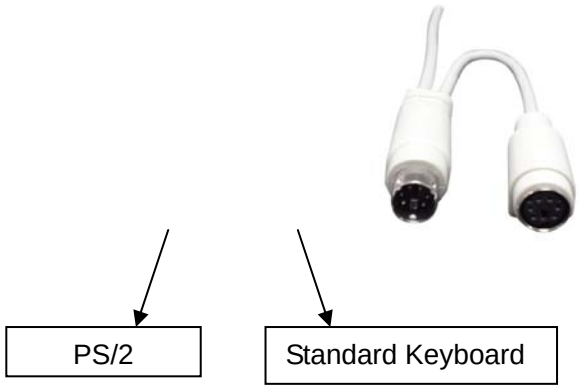


Fig. 6-2a

6-3 VirtualClass keypad functions

The VirtualClass keypad (Fig. 6-2b) provides direct access to all of the main functions available in VirtualClass.

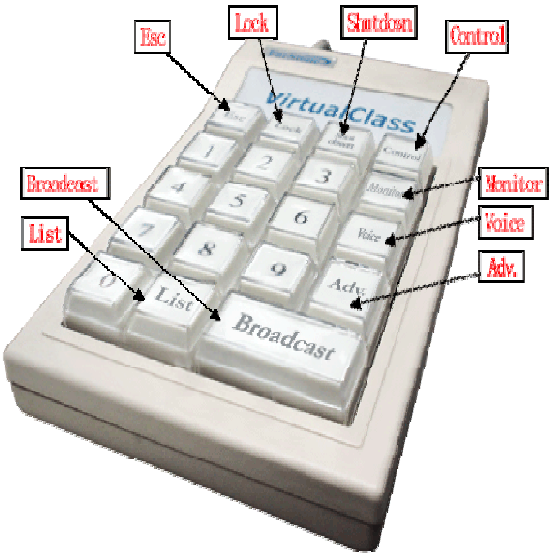


Fig 6-2b

- **Number Keys (1-9)**
  These keys are used to select a specific computer. For example, if you want to control student 112, you should type the number 112 first before executing any actions.

- **List**
  Displays the name and number of all students who are online. If all of the students cannot be displayed on one page, then press **List** again to scroll to the next page.

- **Broadcast**
  Broadcasts the teacher's screen, a model student's screen or a voice message.
  Press **Broadcast** to broadcast the teacher's screen to the screens of all students. To broadcast an individual student's screen to other students, first enter the student number and then press **Broadcast**.

- **Voice**
  Pressing this key will broadcast the teacher's voice message to all students. The teacher can also have a one-on-one chat with a student by selecting the number of the student before pressing the **Voice** key.

- **Adv.**
  Launches VirtualClass advanced functions. There are two options in the Advanced window: e-Tablet and NetMovie. **E-Tablet** is designed to complement the VirtualClass Screen Broadcast. E-Tablet provides a wide range of drawing functionality that can be used to assist the teacher in directing the students' attention toward a point of interest and/or highlighting significant areas of the screen to be broadcast. **NetMovie** provides a convenient way of managing and running all of your multimedia files on CD, hard disk or server from within VirtualClass.

- **Monitor**
  Displays the current screen of a selected student's computer. To monitor one student computer, first enter the student computer number and then press **Monitor**. If you want to monitor all of the students' computers, just press **Monitor**. The screens of all the students who logged into the classroom will be displayed in a "slideshow".

- **Control**
  Takes full control of a specific student's computer. You can remotely control the keyboard, mouse and other applications on a student's computer. To control a system, first enter the student's number and then press **Control**. Only one student computer can be controlled at one time.

- **Shutdown**
  Turns off a specific student's computer or the computers of all students. To turn off an individual student's computer, enter the student number and then press the **Shutdown** key for 3 seconds. To turn off all student computers, just press the **Shutdown** key directly for 3 seconds.

- **Lock**
  Disables the system, keyboard and mouse of one or all students. To lock only one computer, first enter the student's number on the keypad and then press **Lock**. If no student number is entered prior to pressing **Lock**, then all of the systems will be locked.

- **Esc**
  Cancel the current process. For example, if the user is currently broadcasting, pressing **Esc** will stop the broadcasting.

Chapter 7

Network Test

Chapter 7 Network Test

VirtualClass is equipped with a network diagnostic tool for both the teacher program and the student program to ensure that the classroom network functions properly.

If the program does not seem to be able to find a network, please run the VirtualClass network test tool from **Start->All programs->VirtualClass->Network Test.**

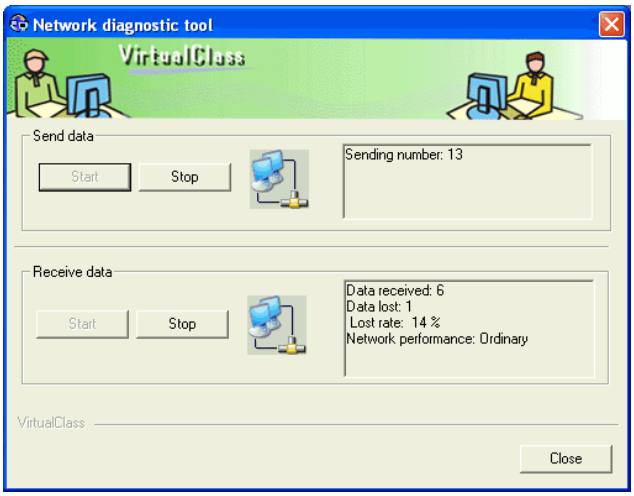


Fig. 4-1a

Step 1 Click the **Start** button on the top to begin sending test information from the teacher's computer to the student's computer.
Step 2 Click the **Start** button at the bottom to receive data packets that have been sent from the teacher's computer.
Step 3 On the right side, the message window will display the information about the data received, lost data packets and your network quality. If no data are received on the student's computer, please check your network connection and hardware configuration.

If the problem still persists, please contact FarStone technical support at support@farstone.com.

Chapter 8

Appendix

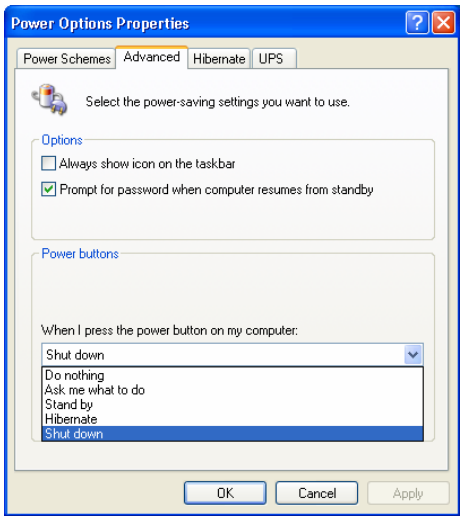
Chapter 8 Appendix

8-1 Frequently Asked Questions (FAQ)

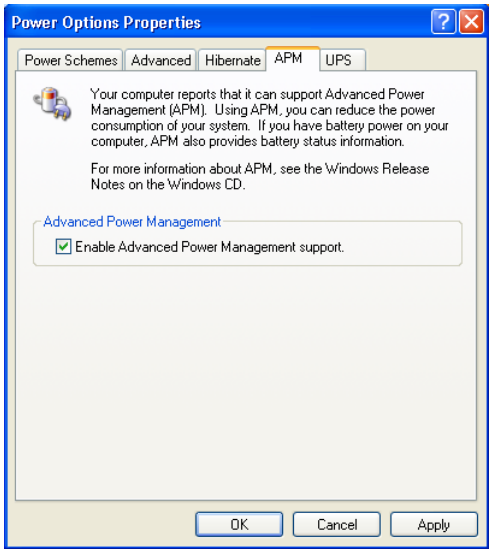
Q1. Why can't I remotely install VirtualClass Client from the teacher side?
If you cannot install the client program through Remote Install tool, please check the following tow conditions to solve this problem:

1. make sure the following ports on the target computer is opened:
   ICMP port 0-Incoming echo request;
   TCP ports 139, 445 and UDP ports 137, 138;
   TCP port 135 and UDP port 135;
   TCP port 6150
2. If the operating system of the target computer is Windows XP, log on it as system administrator to check following: **Start > Settings (Classic start menu) > Control Panel > Administrative Tools > Local Security Policy > Security Settings > Security Options > Network Access: sharing and security model for local accounts**. Make sure the option "**Classic-Local users authenticate as themselves**" is chosen.

Q2. Why can't I turn off (or restart) the student computer using the VirtualClass teacher program?
If the student computer stops responding when you try to turn it off (or restart it), select **Power Options** from the control panel, and then select "Shut Down" from the "When I press..." dropdown menu in the Advanced tab.



Or check **Enable Advanced Power Management support** on the APM tab.



Q3. I turned off the student computer using the VirtualClass teacher program. Why does the Scandisk program always run on the next system startup?
Not all of the programs were closed properly when VirtualClass shut down the student systems. Please close all of the running programs prior to restarting or shutting down.

Q4. I reinstalled the VirtualClass teacher program on my computer. Why did the student number change?
If you want to keep the student number listing the same as before, please do the following:
1. Select "Save student list" when removing the VirtualClass teacher program.
   OR
2. Back up the student list by saving the **vclass.vcm** from %InstallDir% Program Files/FarStone/VirtualClass/vclass.vcm. Replace this file after VirtualClass has been reinstalled.

Q5. When should the student log in to the classroom manually?
If the classroom is already online but the student cannot find the classroom in the **teacher list**, you can enter the teacher computer name or IP address to log in to this classroom.

Q6. Can I change the language displayed in VirtualClass without reinstalling the program?
Yes. You need to copy the ResXXXX.ini file, which is located in the VirtualClass program folder (number in folder name indicates certain language, as is shown in the table below) into %InstallDir%ProgramFiles\FarStone\VirtualClass\Language.
After copying the file, please restart VirtualClass to have the changes take effect after copying the file.

Language	Folder for language
Traditional CHINESE	404
Simplify CHINESE	804
ENGLISH	409
FRENCH	40c
GERMAN	407
ITALIAN	410
SPANISH	40a
DUTCH	413
KOREAN	412
JAPANESE	411

Q7. Can I broadcast movies to student computers using VirtualClass?
Yes. You can do this using the NetMovie feature.

Q8. During installation, I received the following error message "1607: Can't install InstallShield

Scripting Runtime." What should I do?
Make sure that you have the administrator privileges to run the setup on the machine and then run IsScript.msi from the original installation packet. Run the file InstmsiA.exe on Windows 9x or Me or **InstmsiW.exe** on Windows NT, 2000 or XP to install and configure the Windows Installer Service on the machine. These files can be found in the same path as Setup.exe. If the issue persists, then register the **Msiexec.exe** file on the machine manually. To do this, run the following command line options in the **Start** > **Run** command or command prompt of the operating system:
Windows NT, 2000:
C:\Winnt\System32\Msiexec.exe /REGSERVER
Windows 9x, Me or XP:
C:\Windows\System\Msiexec.exe /REGSERVER

Make sure that the Installer folder in the Windows directory on the machine is not read-only. The path to the installer folder is typically C:\Winnt\Installer on Windows NT, 2000 and XP machines and C:\Windows\Installer on Windows 9x and Me machines. Right-click on the Installer folder and make sure that it is not read-only. On some machines, the installer folder may be hidden. Before searching for this folder in the above path, make sure to check the option "Show hidden files and folders" in the Windows Explorer options. Launch the Task Manager to see if multiple instances of Msiexec.exe or IDriver.exe are running on the machine. You can launch the Task Manager by pressing **Ctrl+Alt+Delete**. **You should have at least one instance of these files running.** But if you see more than one instance of Msiexec.exe or IDriver.exe, it could be the cause of the issue. If this is the case, please restart your system and try again.

Q9. How can I optimize the performance of VirtualClass?
You can try the following to improve your VirtualClass performance:
1. Reduce your screen resolution (e.g. reduce 1024 X 768 to 800 X 600).
2. Reduce the color quality (e.g. reduce 32-bit to 16-bit).
3. Do not set up a background picture
4. For Windows XP users, please select **Appearance** in **Display properties**, and then set Windows and buttons as **Windows classic style**.
5. Upgrade the display adapter driver.

Q10. Why can't some student computers receive the screen broadcast in a network?
Please check whether the connection of the student computers is working properly. We provided a tool for testing the network connection for both the teacher and student computers. Start this tool from **Start->Programs->VirtualClass->Network Test** and check whether the computers can send or receive data.

Q11. Why can't the teacher and students hear from or talk to each other?
The following functions will use audio: when using the **Monitor**, **Control** and **Talk**. the teacher and students can communicate with each other; when using the **Broadcast** and **Lecture** functions, students can only hear from the teacher.

If audio does not work properly, please check the system's volume Configuration from "**Control Panel -> Sounds and Audio Devices -> Audio -> Volume -> Options -> Properties -> Recording**" or by double-clicking the Volume icon in the task tray and selecting **Options -> Properties -> Recording** from the Volume Control window.

Check the status of all options in the **Show the following volume controls** screen:

A) To send audio from Teacher to Student, make sure "Mono Mix" is selected on the teacher computer, and "Microphone" and "Stereo Mix" are not selected. Also make sure that "Microphone" is selected on the Student computer.

B) To send audio to Student, make sure that "Microphone" is selected on the Teacher's computer and "Mono Mix" is selected on the student computer.

After configuration, exit and restart VirtualClass to have the changes take effect.

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